

**Abrasion Resistant Compound**

Technical Bulletin # 474

**Product Description**

WEAREX is a ceramic filled epoxy paste that can be trowel applied over any worn surface. It conforms to any shape and cures quickly to form a tough, abrasion and corrosion resistant coating for long lasting, cost effective repairs... \* without welding \* and without any fire hazard problems during application.

WEAREX has been field tested and proven in severe sliding friction applications, including slurry pumps and other equipment subjected to abrasive sludge and slurries in the chemical, petrochemical, mining and marine industries.

- Resists abrasion and corrosion, abrasive solids, sludge and slurries that cut production...and profits!
- Reduces downtime, puts reconditioned equipment back in service...fast!
- Extends life of new or severely eroded equipment...eliminates need for frequent purchases of expensive machinery!
- Is easy to mix and use, no special tools or special applications skills are required for convenient in-field repairs!

Any quantity of WEAREX, a two-part epoxy resin system, can be readily mixed and trowel applied to extend the life of new equipment prior to installation or to quickly put older, worn equipment back in service.

**Use & Benefits**

Wearex extends the life of expensive equipment such as:

- slurry pumps \* chute linings \* bucket feeders \* ball mills
- centrifugal pumps \* condensers \* cooling towers \* conveyor skirts
- cyclones \* dredge pumps \* feed chutes \* feed plates \* rod mills
- hopper feeders \* pan feeders \* pipe elbows \* slurry lines
- induced draft fans \* impellers \* valves

WEAREX Abrasion Resistant Compound provides convenient, cost effective protection for metal surfaces subject to severe sliding abrasion.

WEAREX is a complete pre-measured factory proportioned unit for OEM installations on new equipment or for field installations on new or severely worn equipment.

**Application Information**

**Surface Preparation:** Prior to application on any new or worn metal surface, that surface must be clean and dry. Clean off all oil, rust, dust and water. Grind or sandblast. If, for example, a deeply scored pump liner has become worn and "polished," it should be ground or sandblasted to provide a rough surface profile.

**Mixing:** Mix the white resin paste with the black hardener paste in a 1:1 ratio (by volume), using a stiff putty knife or stout mixing sticks on a non-absorbent flat surface. Continue mixing until a homogenous gray color is obtained. The color change during mixing provides field control.

Apply WEAREX with an offset 1 1/2" x 5" mason's trowel. Then smooth the surface by adding small amounts of water. If the worn area is deeper than 3" (7.6 cm), allow an initial 2" (5 cm) thick troweled

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application of WEAREX to harden and cool to ambient temperature, without smoothing, before applying a second layer.

Heat may be applied to hasten the cure for full attainment of strength, but only after WEAREX has gelled. If the temperature material is held at approximately 100° – 110°F (38° – 43°C), better than 75% of the abrasion resistant strength can be obtained within eight hours.

Cleaning Tools: For cleaning tools used with WEAREX Abrasion Resistant Compound: XyloI

## Physical Properties

COMPRESSIVE STRENGTH:	13,233 psi
COVERAGE:	12.4 sq ft (1.15 sq meters) at 1/4"cm (0.6) thickness per unit
CURE TIME:	12 hours @ 70°F (21°C)
DENSITY:	18.28 lbs per gallon (2.19)
FLEXURAL STRENGTH:	1.926 psi
GEL TIME:	2.5 to 3 hours at 70°F (21°C)
IZOD IMPACT STRENGTH:	9.2 inch pounds per inch
LAP SHEAR STRENGTH:	1,193 psi
TENSILE STRENGTH:	1,406 psi

1. Greater than 70% of ultimate abrasion resistant strength is obtained in 12 hours at 70°F (21°C). If the material temperature is increased to 100-110°F (38-43°C) better than 75% of the ultimate abrasion resistant strength will be obtained in 8 hours.

### ORDERING INFORMATION:

WEAREX Abrasion Resistant Compound 2 gallon unit includes 1 gallon resin and 1 gallon hardener. Total unit weight: 35 lbs 6 oz. (15.9 Kg)  
Mixing Ratio 1:1.

Date

07/2006

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